

## **Abstract**

**[00137]** A tool for radially plastically expanding a pipe having a threaded connection therein, that includes a first section. The first section has an increasing diameter and increasing cone angle along a direction of travel through the pipe. The first section includes a first outer surface adapted to contact an inner surface of the pipe at a plurality of selected contact patches on the first outer surface. The tool also includes a second section axially disposed behind the first section along the direction of travel. The second section has an increasing diameter and decreasing cone angle along the direction of travel. The second section includes a second outer surface adapted to contact an inner surface of the pipe at least one selected contact patch on the second outer surface.

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